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10/539,768	06/20/2005	Hee Sook Shin	HI-0185	6478
34610 7590 02/13/2009 KED & ASSOCIATES, LLP P.O. Box 221200			EXAMINER	
			NOORISTANY, SULAIMAN	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/539 768 SHIN ET AL. Office Action Summary Examiner Art Unit SULAIMAN NOORISTANY 2446 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 December 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15 and 17 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-15 and 17 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 20 June 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 6/20/2005, 8/1/2005, 9/12/008.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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Detailed Action

This Office Action is response to the application (10/539,768) filed on 20, June 2005.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

<u>Claims 1-15, 17 are rejected under 112, second paragraph as being indefinite for failing to particularly point and distinctly claim the subject matter which applicant regards as the invention</u>

In claim 1, "a client profile analyzer that extracts" in line 5 is indefinite and not clear what this is in reference to (e. g., extracts received information?). However the claim will be given a broad reasonable interpretation for the purposes of examination as best understood.

Claims 2-15, 17 are rejected for similar reasons as stated for claim 1.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-15, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang et al. U.S Patent No. US 7,120,702 in view of Smith et al. U.S Patent No. US 6.970.602 further in view of Wyler International Pub. App. No. WO 01/57719.

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Regarding claim 1, Huang teaches wherein a web content converting system for converting a large display screen web document into a small display screen web document, the system comprising:

a preprocessor that standardizes a non-standard web document having an erroneous tag to output a standardized web document in a data format suitable for analysis (transcoder transforms the data into a standardized form so that the adapter can then modifying the standardized data into a compatible form for display by the client device -- Abstract. lines 10-13):

a client profile analyzer that extracts and analyzes client information, (For each type of client device, or user preference, a corresponding adapter (acts as an analyzer) is used to interpret (extract/analyze) the user request (information) and properly transcode the relevant web content, Col. 3, line-67, Col. 4, lines 1-2);

a structure analyzer that receives the web document standardized in the preprocessor to sort the web document to a content unit piece (analyzing the content – Col. 5, lines 28-29) according to a document analysis algorithm (a machine component that renders the program code elements in a form that instructs a digital processing apparatus (that is, a computer) to perform a sequence of function, Col. 4, lines 24-27); and

a HyperText Markup Language (HTML) generator that generates, rearranges and reconstructing the content object elements according to a document pattern to generate small display screen web document (PatML is a pattern/match replacement

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tool for XML documents, which allows a user to specify how an XML document can be transformed for browsing on other programs. A PatML rule specifies an XML pattern to match and how to transform the pattern. Each PatML rule matches a specific pattern in an HTML page and transforms this pattern into a new XML fragment (Col. 5, lines 54-61).

With respect to claim 1, Huang shows all the features of the instant claimed invention except for the specific detail of *an image converter that extracts information on an image encoding/decoding procedure and an image size of the web document in order to display the image;

a component block extractor that groups each of the content unit pieces with similar groups of content unit pieces within a range not exceeding a maximal width by using an attribution vaWyler of the respective content unit piece and the client performance information, to generate component blocks;

a component block categorizer each of the component blocks generated by the component block extractor as either index or body content portions in accordance with a content characteristic;

an index generator that extracts information on an image or text index from the component blocks categorized as index content portions, and generates a script file and an additional tag collection the extracted information:

an auditory markup generator for converting that converts a text-centered body content block into an auditory markup language to perform an auditory_supporting function.

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Smith teaches that is well known to have an image converter that extracts information on an image encoding/decoding (compression) procedure and an image size of the web document in order to display the image (There are many ways in which a transcoder can adapt content to the client device, such as by data compression, summarization and media conversion (Col. 2, lines 5-7);

a component block extractor that groups the set content unit piece with similar groups (Fig. 8, -- separate out different items in a Web document such as text bodies, Java applets, images, animations and embedded video. After multimedia object separation, the individual multimedia objects can be analyzed and transcoded independently, can be analyzed and grouped for transcoding, or can be further broken down into individual modalities -- Col. 5, lines 9-15) within a range not exceeding a maximal width (images using the measure of the mean saturation per pixel -- Col. 8, lines 49-50; Fig. 9) by using an attribution vaWyler of the content unit piece (The system can also extracts a number of image attributes, such as image width -- Col. 11, lines 28-29), and the client performance information to generate component blocks (Fig. 9; Table 6 – summary of client device in order to display the content);

an auditory markup generator for converting that converts a text-centered body content block into an auditory markup language to perform an auditory_supporting function (converting text to speech; converting audio to text through speech recognition; converting text from one language to another; summarizing text

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passages; and so forth -- Co. 4, lines 42-45). Smith further teaches wherein "document analysis algorithm" - Abstract.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Huang's invention by transcoding the web content to small display, where Smith provides the advantage of coupling content analysis with transcoding the content could be better adapted to constraints in delivery, display, processing and storage (col. 2, lines 45-47). Further, transcoding can be found in many areas of content adaptation however it is commonly used in the area of mobile phones content adaptation. In the world of mobile content, transcoding is a must due to the diversity of mobile devices. This diversity requires an intermediate state of content adaptation in order to make sure that the source content will adequately present on the target device it is sent to. Transcoding can also refer to the encoding of files to a lower bit-rate without changing video formats, a process that is also known as translating. when using a camera phone to take a digital picture you are actually creating a high resolution JPEG image, usually at least 640x480 with 24 bits of color. However when sending the image to another phone this high resolution image might be transcoded to a lower resolution image with less amount of color in order to better fit the target device's screen size and color limitation. This size and color reduction not only improves the user experience on the target device but is sometimes the only way for content to be sent between different devices, as taught by Smith.

However, Smith is silent in terms of a component block categorizer each of the component blocks generated by the component block extractor into index and body

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content portions in accordance with a content characteristic;

an index generator that extracts information on an image or text index from the component block categorized into the index portion, and generates a script file and an additional tag collection to express the extracted information.

<u>Wyler</u> teaches that is well known to have a component block categorizer each of the component blocks generated by the component block extractor into index and body content portions in accordance with a content characteristic (Fig. 1-36; Page 3, lines 4-9; page. 24, lines 1-11; page 29, lines 28 – page 33, line 9; page 40, line 9 – page. 41, line 2):

an index generator that extracts information on an image or text index from the component block categorized into the index portion (Fig. 1-36; Page 3, lines 4-9; page. 24, lines 1-11; page 29, lines 28 – page 33, line 9; page 40, line 9 – page. 41, line 2), and generates a script file and an additional tag collection to express the extracted information (Fig. 1-36; Page 3, lines 4-9; page. 24, lines 1-11; page 29, lines 28 – page 33, line 9; page 40, line 9 – page. 41, line 2) in order to make the system more efficient and for processing information received by wireless devices such as wireless personal digital assistant (PDA) and wireless telephone, over Internet.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Huang's invention utilizing to analyzing the processes and formatting network information such as web pages. In addition, the information is received from one or more source over a computer network and some of the received information are parsed. Some of the parsed information are displayed to the user on a

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wireless personal digital assistant according to its importance in accordance with user selected importance criteria. Furthermore, it provides methodology for processing and presenting information received from any web-site not limited to web-sites that are wireless application protocol (WAP) configured and automatically displays the information in readable form to the user, as taught by <u>Wyler</u>.

Regarding claim 2, Huang together with Smith and Wyler taught the method according to claim 1 as described above. Smith further teaches wherein the web content converting system is installed at any one of three layers of a web server, a client and a proxy (The transcoding mechanism can be deployed in a number of ways in a networked system, including deployment at a server or at the client. Alternatively, the transcoding system can be deployed at a proxy, which retrieves the content from the content server (Col. 1, lines 50-54).

Claim 3 list all the same elements of claim 1, but in system rather than method form.

Therefore, the supporting rationale of the rejection to claim 1 applies equally as well to claim 3.

Regarding claim 4, Huang together with Smith and Wyler taught the method according to claim 3 as described above. Wyler further teaches wherein in the standardizing step, a tag such as <TABLE>, <TR>, <TD>, , etc. is mainly analyzed (Fig. 34-35); and a specific <TD> tag is defined as a component to be used as a minimal unit for the

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Content unit analysis. (Fig. 34-35).

Regarding claim 5, Huang together with Smith and Wyler taught the method according to claim 3 as described above. Smith further teaches wherein in the step, a component tree is in to check initial width information for all component nodes, and the comprises checking whether or not a sibling node of a current component node exists (Fig. 8, tree decision, The separation process may involve analysis of the multimedia material to determine file formats, MIME types, and other information that infWylernces the separation. This processing can separate out different items in a Web document such as text bodies, Java applets, images, animations and embedded video — Col. 5, lines 6-11), and if a sibling node of a current component node exists, sibling nodes are bundled and grouped within range not exceeding the maximal width (MAX_WIDTH) (Table 6 -- summary of client device capabilities).

Regarding claim 6, Huang together with Smith and Wyler taught the method according to claim 3 as described above. Smith further teaches wherein the categorizing step comprises the receiving a component block tree for each of the component blocks comprising a content pattern of the component block (separation process may involve analysis of the multimedia material to determine file formats, MIME types, and other information that influences the separation -- Col. 5, lines 6-10);

determining an index type if a resultant value of the pattern comparison exceeds a certain critical value; setting a type of the index-determined block to each of an image

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index (INDEX_I) or a text index (INDEX_T) depending on whether a data type of the content is an image or a text (In the analysis process, the document can be separated into objects such as photos, graphics and text. Each of the objects can be analyzed separately as illustrated in FIG. 2-3); and

categorizing a block not being an index the portion as a body portions, and categorizing an auditory, body (BODY_V) performing to perform the converting into the auditory, document and general body (BODY_G) processed as other general content blocks (converting text to speech; converting audio to text through speech recognition; converting text from one language to another; summarizing text passages; and so forth -- Co. 4, lines 42-45).

Regarding claims 7 & 8, Huang together with Smith and Wyler taught the method according to claim 1 as described above. Smith further teaches wherein converting a text- centered body content block into an auditory markup language to perform an auditory supporting function comprises converting a text-centered body content block into a voice markup language to perform a voice supporting function (converting text to speech; converting audio to text through speech recognition; converting text from one language to another; summarizing text passages; and so forth -- Co. 4, lines 42-45).

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Claims 9-10 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 9-10.

Claim 11 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 11.

Claim 12 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 12.

Claim 13 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 13.

Claim 14 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 14.

Regarding claim 15, Huang together with Smith and Wyler taught the method of claim 12, as described above. Smith further teaches wherein the second rearranged web

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document is displayed without a scroll bar for a width direction (Fig. 7).

Claim 17 list all the same elements of claim 1-8, but in system rather than method form. Therefore, the supporting rationale of the rejection to claim 1-8 applies equally as well to claim 17.

Response to Amendment

Applicant's arguments with respect to claim(s) 1-15, 17 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action. Any inquiry concerning this

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communication or earlier communications from the examiner should be directed to Sulaiman Nooristany whose telephone number is (571) 270-1929. The examiner can normally be reached on M-F from 9 to 5. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Pwu, can be reached on (571) 272-6798. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). Sulaiman Nooristany 02/10/2009

/Jeffrey Pwu/

Supervisory Patent Examiner, Art Unit 2446